

CLAIMS

- 1 1. An apparatus comprising:
2 at least one processor;
3 a memory coupled to the at least one processor;
4 a plurality of logical partitions defined on the apparatus;
5 an I/O reconfiguration mechanism that reconfigures identified I/O; and
6 a logical partition suspend/resume mechanism that suspends at least one of the
7 plurality of logical partitions before the I/O reconfiguration mechanism reconfigures the
8 identified I/O, and that resumes all suspended logical partitions after the I/O
9 reconfiguration mechanism reconfigures the identified I/O.
- 1 2. The apparatus of claim 1 wherein the logical partition suspend/resume mechanism
2 suspends all of the plurality of logical partitions.
- 1 3. The apparatus of claim 1 wherein the logical partition suspend/resume mechanism
2 suspends only the logical partitions that own the identified I/O.

- 1 4. An apparatus comprising:
2 at least one processor;
3 a memory coupled to the at least one processor;
4 a plurality of logical partitions defined on the apparatus; and
5 a partition manager residing in the memory and executed by the at least one
6 processor, the partition manager performing the steps of:
7 (1) detecting when identified I/O requires reconfiguration;
8 (2) suspending at least one of the plurality of logical partitions;
9 (3) reconfiguring the identified I/O; and
10 (4) resuming all logical partitions suspended in step (2).

1 5. An apparatus comprising:
2 at least one processor;
3 a memory coupled to the at least one processor;
4 a plurality of logical partitions defined on the apparatus;
5 a partition manager residing in the memory and executed by the at least one
6 processor, the partition manager performing the steps of:
7 (1) quiescing identified I/O;
8 (2) suspending at least one of the plurality of logical partitions that owns at
9 least a portion of the identified I/O;
10 (3) reconfiguring the identified I/O;
11 (4) enabling the reconfigured identified I/O; and
12 (5) resuming all logical partitions suspended in step (2).

1 6. A computer-implemented method for reconfiguring identified I/O in a computer
2 system that includes a plurality of logical partitions, the method comprising the steps of:
3 (1) suspending at least one of the plurality of logical partitions;
4 (2) reconfiguring the identified I/O; and
5 (3) resuming all logical partitions suspended in step (1).

1 7. The method of claim 6 wherein step (1) comprises the step of suspending all of
2 the plurality of logical partitions.

1 8. The method of claim 6 wherein step (1) comprises the step of suspending only the
2 logical partitions that own the identified I/O.

- 1 9. A computer-implemented method for reconfiguring identified I/O in a computer
2 system that includes a plurality of logical partitions, the method comprising the steps of:
3 (1) detecting when the identified I/O requires reconfiguration;
4 (2) suspending at least one of the plurality of logical partitions;
5 (3) reconfiguring the identified I/O; and
6 (4) resuming all logical partitions suspended in step (2).

1 10. A computer-implemented method for reconfiguring identified I/O in a computer
2 system that includes a plurality of logical partitions, the method comprising the steps of:
3 (1) quiescing identified I/O;
4 (2) suspending at least one of the plurality of logical partitions that owns at least a
5 portion of the identified I/O;
6 (3) reconfiguring the identified I/O;
7 (4) enabling the reconfigured identified I/O; and
8 (5) resuming all logical partitions suspended in step (2).

- 1 11. A program product comprising:
- 2 (A) a logical partition suspend/resume mechanism that suspends at least one of a
- 3 plurality of logical partitions before identified I/O is reconfigured, the logical partition
- 4 suspend/resume mechanism resuming all suspended logical partitions after the identified
- 5 I/O is reconfigured; and
- 6 (B) computer readable signal bearing media bearing the logical partition
- 7 suspend/resume mechanism.
- 1 12. The program product of claim 11 wherein the signal bearing media comprises
- 2 recordable media.
- 1 13. The program product of claim 11 wherein the signal bearing media comprises
- 2 transmission media.
- 1 14. The program product of claim 11 wherein the logical partition suspend/resume
- 2 mechanism suspends all of the plurality of logical partitions.
- 1 15. The program product of claim 11 wherein the logical partition suspend/resume
- 2 mechanism suspends only the logical partitions that own the identified I/O.

1 16. A program product comprising:
2 (A) a partition manager that performs the steps of:
3 (1) detecting when identified I/O requires reconfiguration;
4 (2) suspending at least one of a plurality of logical partitions;
5 (3) reconfiguring the identified I/O; and
6 (4) resuming all logical partitions suspended in step (2); and
7 (B) computer readable signal bearing media bearing the partition manager.

1 17. The program product of claim 16 wherein the signal bearing media comprises
2 recordable media.

1 18. The program product of claim 16 wherein the signal bearing media comprises
2 transmission media.

1 19. A program product comprising:
2 (A) a partition manager that performs the steps of:
3 (1) quiescing identified I/O;
4 (2) suspending at least one of a plurality of logical partitions that owns at
5 least a portion of the identified I/O;
6 (3) reconfiguring the identified I/O;
7 (4) enabling the reconfigured identified I/O; and
8 (5) resuming all logical partitions suspended in step (2); and
9 (B) computer readable signal bearing media bearing the partition manager.

1 20. The program product of claim 19 wherein the signal bearing media comprises
2 recordable media.

1 21. The program product of claim 19 wherein the signal bearing media comprises
2 transmission media.

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